

# BROOKHAVEN BULLETIN

Volume 32 - Number 47 / December 22, 1978  
BROOKHAVEN NATIONAL LABORATORY

*not bad photos*



—photo by Tom Luhman



—photo by Bill Greenberg



—photo by Jeannette Thiede

## Season's Greetings



—photo by Ella McLean



—photo by Bill Greenberg



—photo by Dick Ruffing



—photo by Dave Edwards

### Nursery School Openings Available

The Upton Nursery School has a number of openings for both three and four-year olds in classes that meet three mornings a week on Monday, Wednesday and Friday. The new term starts January 3 and runs until June 15. The school is a cooperative and one parent is scheduled to assist the teacher in each class. The tuition fee is \$35 per month. For further information, call Marie Murtagh at 821-9587.

### Reports Available

The following reports are now available to the Laboratory Staff and to Affiliates of the DOE, AUI, and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161. Staff members should call Ext. 3484.

- BNL 50498 \$4.00**  
Superconducting Devices at Brookhaven National Laboratory. P.F. Dahl
- BNL-NUREG-50837 \$6.00**  
Properties of Radioactive Wastes and Waste Containers. Progress Report No. 7, October-December 1977. P. Colombo, et al
- BNL 50847 \$12.50**  
Proceedings of the Isotope Separator On-Line Workshop. R.E. Chrien
- BNL 50872 \$4.00**  
Design of Quarter Wavelength Resonator for 2 Megahertz Heavy Ion Linear Accelerator. J.T. Keane
- BNL 50877 \$4.50**  
Environmental Control Technology for Atmospheric Carbon Dioxide. Progress Report No. 2, October 1, 1977 to March 31, 1978. M. Steinberg, et al
- BNL 50879 \$12.50**  
Proceedings Informal Conference on Status and Future of Solar Neutrino Research. Vol. I. G. Friedlander
- BNL 50879 \$11.00**  
Proceedings Informal Conference on Status and Future of Solar Neutrino Research. Vol II. G. Friedlander
- BNL-NUREG-50880 \$5.25**  
Preliminary Investigation of Turbulent Reactive Mixing in PCRV/CV Gas Mixtures. J.L. Boccio
- BNL-NUREG-50883 \$9.25**  
Reactor Safety Research Programs. Quarterly Progress Report, April 1 - June 30, 1978. Compiled by A.J. Romano
- BNL 50884 \$4.50**  
Polyketones and Polysulfones for Conservation in the Ethylene Polymer Industry. Progress Report No. 1, October 1977 - March 1978. M. Steinberg, et al
- BNL 50888 \$4.00**  
A Review of Furnace Modeling. C.R. Krishna
- BNL 50804 \$4.50**  
ISABELLE, Accumulators, Bunched Beams and Cosmicrons. M. Month
- BNL 50839 \$4.00**  
The Use of the Pulp and Paper Industry Process Model for R&D Decision Making. D. Pilati, et al
- BNL 50840 \$12.00**  
Medical Data Base: A Tool for Studying the Relationship of Energy Related Pollutants to Ill Health. S.R. Bozzo, et al
- BNL 50844 \$6.00**  
Coal in Transition 1980 - 2000 Demand Considerations. A.S. Kydes, et al
- BNL 50846 \$7.25**  
The Elemental Composition of Human Teeth with Emphasis on Trace Constituents, A Review. W.H. Sachs
- BNL 50853 \$6.00**  
Direct Measurement of the Overall Efficiency and Annual Fuel Consumption of Residential Oil-Fired Boilers. Annual Report Fiscal Year 1977. J.E. Batey, et al
- BNL 50863 \$4.00**  
Energy Demand Analysis in the Workshop on Alternative Energy Strategies. S.C. Carhart
- BNL 50866 \$5.25**  
Regenerative Process for Desulfurization of High Temperature Combustion and Fuel Gases. Quarterly Progress Report No. 8, January 1 - March 31, 1978. R.T. Yang, et al
- BNL 50870 \$4.00**  
On Coaxial Wire Measurements of the Longitudinal Coupling Impedance. H. Hahn, et al
- BNL 50876 \$4.50**  
Preliminary Report on Some Health, Environmental, and Economic Costs and Benefits of Energy Conservation and Fuel Substitutions. P.D. Moskowitz, et al



Robert Conard



William Rubinson



Clyde Sipe



John Craig



Anthony Guacci



Elmer Monti



Bjarne Christoffersen



John Malakie

### Retiring December 31

**Robert A. Conard**, Senior Scientist in the Medical Department, will retire after 23 years with the Laboratory. Conard received his M.D. degree in 1941 from the Medical College of South Carolina. He spent 14 years in the U.S. Navy as a medical officer specializing in nuclear medicine and is a Rear Admiral in the Naval Reserve. Since his arrival at Brookhaven in 1956 he has been in charge of the annual medical surveys of the Marshall Islanders. Each year, he led a team of researchers to the Islands to monitor the people who were accidentally exposed to radioactive fallout following a bomb test in March 1954. He has published numerous articles on these studies.

**William Rubinson**, will retire this month from BNL's Chemistry Department. Rubinson is a nuclear chemist whose research at the Lab concerned the effect of radioactive transformation on the atomic electrons around a nucleus undergoing transformation. Rubinson was the first to prove the existence experimentally that such effects on electrons occurred. Last year, Rubinson worked with the DOE in Germantown where, as a program monitor, he was responsible for awarding contracts for research proposed by national laboratories and universities.

**Jack Craig**, retiring this month, joined BNL's Instrumentation Division in 1948. As Radio and Communications supervisor for approximately 20 years, Craig said he considered part of his responsibility was "to make the researcher's job a little easier." In his retirement, Craig plans to "fill his camper trailer with good books and music" and to tour the U.S.

**Bjarne Christoffersen**, an electrician in Plant Engineering retires December 31 after 19 years of service. He lives in Farmingville.

**Anthony Guacci** will leave his position as BNL's Resident Service Supervisor after 31 years. He oversaw the general maintenance of Laboratory housing. Guacci, who makes his home in Selden, has no formal plans for his retirement other than a trip to Florida - "just to visit" - sometime in the future.

**John Malakie**, who has been with the Lab since 1966 will retire from his position as a tool and instrument maker in Central Shops. He is living in Sun City Center, Florida.

**Elmer Monti's** first job upon leaving the service in 1947 was with BNL. Monti, who grew up on a farm near the Lab site and who went through Camp Upton as a GI, said "the place is like my home." A steamfitter in Plant Engineering, Monti plans to travel to Italy and to other European countries in the spring.

**Clyde Sipe** retires from the Lab this month after 20 years service as a medical associate. Sipe, whose work at BNL involved research on the kinetics of blood cells, plans "to be busy and to take it easy" while traveling to the Southwest, to Florida and to Europe. In his spare time, Sipe will enjoy his varied hobbies and continue studying music.

### Per Diem Increase

Before attending a seminar in Japan last month, members of the Reactor Safety delegation made comments in jest revealing their "secret contingency plans" to defray dining costs in that country. As the November 17 *Bulletin* article noted, the \$18 per day travel expense allowed by the Lab could not adequately cover living expenses in a foreign country where the devalued dollar might cause a meal to cost between \$10 and \$30 per person.

The Laboratory annually reviews its per diem travel allowance and has increased it gradually in past years in response to increases in the cost of living index. The most recent review, however, resulted in a more substantial per diem increase owing to world-wide inflation and the devaluation of the U.S. dollar. Because the cost of travel to Japan has increased most notably due to domestic inflation and the currency exchange rate, a special, higher rate has been approved for travelers to that country.

At its December meeting, the Executive Committee of the AUI Board of Trustees approved a foreign travel per diem of \$27, except for Japan where the rate will be \$32 per day. The increase becomes effective January, 1979. The domestic per diem of \$18 remains unchanged.

### Cref Values

January	\$35.72	February	\$34.96
March	36.15	April	39.28
May	39.62	June	38.94
July	41.03	August	42.17
September	41.86	October	38.18
		November	\$38.80

### Soc. Sec. Taxes Go Up

Effective January 1, 1979, Social Security taxes will be deducted on the first \$22,900.00 of each wage-earner's income at the rate of 6.13%. In 1978, the Social Security base was \$17,700.00 and the rate of tax was 6.05%. This means the maximum Social Security tax a wage-earner pays in 1979 will be \$1,403.77 compared with \$1,070.85 in 1978, an increase of \$332.92.

The impact of the change at various salary levels is reflected in the table below:

If your annual salary is:	FICA annual tax increase
\$12,000	\$ 9.60
14,000	11.20
16,000	12.80
17,700	14.16
19,000	93.85
21,000	216.45
22,000	277.75
22,900 or more	Maximum 332.92

If you have any questions, call Maurice DuBois, Extension 2487.

### Arrivals & Departures

#### Arrivals

- Chi K. Chang.....Energy & Env.
- Eva Emmerich.....Accelerator
- Merrith T.E. Knight.....Plant Engrg.
- Christopher P. Lanni.....Accelerator
- Henry W. Pfister.....Accelerator
- Kenneth A. Rogers.....Accelerator
- Andrew J. Tantillo.....Accelerator

#### Departures

- Ernestine James.....Staff Services
- Masamitsu Kosaki.....Accelerator
- Hideki Okuno.....Instrumentation
- Donna M. Visone.....Energy & Env.

### Answers to last week's puzzle



### Washington Visitors



Ruth Clusen, (second from right) who was appointed Assistant Secretary for Environment at DOE in September, paid her first visit to Brookhaven last week. At the HFBR, she and her Special Assistant, Carol Jolly, talk with Jerry Kinne (left) and Associate Director Victor Bond about the shipping cask used in the transport of spent nuclear fuel. She also visited the Biology, Energy and Environment, and Medical departments.

—photo by Reben

# BROOKHAVEN BULLETIN

Published weekly for the employees of  
BROOKHAVEN NATIONAL LABORATORY

**BERNICE PETERSEN**, Editor  
**ANNE BAITTINGER**, Staff Writer  
**ROSANNE PAGANO**, Editorial Assistant

40 Brookhaven Ave., Upton, N.Y. 11973  
Telephone (516) 345-2345

**CARL R. THIEN**, Public Relations Officer

## SEASON'S GREETINGS

Photos on the front page were contributed by employees. We thank all who submitted their photos and only regret that lack of space prevented us from printing all of them.

## Letters To The Editor

To the Editor:

It may be of interest to those who enjoyed the list of collective nouns, printed in the December 8 Bulletin, that a more entertaining and challenging list of terms was published in 1968 - James Lipton's "Exhalation of Larks."

An awarded second edition was published in paper back last year with lists from contributors attempting to modernize the over 500 year old collection, with such offerings as:

- An overcharge of repairsmen
- A descent of relatives
- A parenthesis of cellists
- A shush of librarians

With appreciation for the Laboratory's generosity in sending the Bulletin to retired employees.

—W. Alvord Finn

## Holiday Food Service

The Vended Food Service in Building 912 will be open at all times and will be serviced regularly throughout the Christmas and New Year's holidays.

The Center Club snack and beverage bar will be closed on Friday, Saturday, Sunday and Monday, December 22nd through December 25th and will reopen at 5:00 p.m. on Tuesday, December 26th. The Center Club will also be closed on Saturday and Sunday, December 30th and 31st and will reopen at 5:00 p.m. on Monday, January 1st.

The Cafeteria will close at 2:00 p.m. on Friday, December 22nd. On Saturday and Sunday, December 23rd and 24th, and Saturday and Sunday, December 30th and 31st, Snack Bar Service will be available from 9:00 a.m. until 2:00 p.m. The Cafeteria will be closed on Monday, December 25th and Monday, January 1st.

The coffee truck will not make its rounds on Friday, December 22nd, due to the half holiday.

## Cafeteria Menu

Week of December 29, 1978

<b>Tuesday, December 26</b>		
Cream of tomato soup	(cup)	.30
	(bowl)	.40
Beef chop suey on rice		1.30
Scrambled eggs & sausages w/fr. fr.		1.15
Hot Deli - Knockwurst	(on bread)	1.15
	(on roll)	1.25
<b>Wednesday, December 27</b>		
Beef noodle soup	(cup)	.30
	(bowl)	.40
Fettuccini al burro		1.25
Roast chicken & stuffing w/1 veg.		1.20
Hot Deli - Pastrami	(on bread)	1.15
	(on roll)	1.25
<b>Thursday, December 28</b>		
Lentil soup	(cup)	.30
	(bowl)	.40
Sauerbraten & potato pancake		1.45
Pork & cabbage crisp		1.35
Italian sausage & peppers hero		1.25
<b>Friday, December 29</b>		
Fish chowder	(cup)	.40
	(bowl)	.50
Broiled filet & 1 veg.		1.25
Chili & beans		1.20
Hot Deli - Roast beef	(on bread)	1.25
	(on roll)	1.35

## More Awards for Roadrunners



At the Third Annual Turkey Trot held earlier this month at the Brookhaven Town Recreation Park in Ridge, eight trophies were awarded seven BNL runners. The day's overall female winner was Elaine Landry whose husband Ted joined Dave Penoyar and Anne Nauman among first place finishers. Trophies also went to Jill Kaufman, Ed Gill and Dave Judkins. In all, 18 Roadrunners completed the muddy, short course in cool, sunny weather. Kneeling behind newly won BNL trophies are from left to right, Dolores Judkins, Anne Nauman, Jill Kaufman, Elaine Landry and Ed Gill. Standing from left to right are Ted Landry, Bob Krasny, Dennis Nordstrom, Dave Judkins, Tom Ruth, Ron Weider and Dave Penoyar. Also, Jerry Kinne, Jack Baer, Gil DeGregory, Chuck Nauman and Pat Gilleeny. Missing from photo is Carl Anderson. Elsewhere that weekend, four BNL runners overcame the cold, windy conditions of the Jersey Shore Marathon. Running strong races in that event were John Ferrero, Gus Prince, Terry Frei and Terry Whitledge.

—photo by Joe Wynne

## Emergency Closings

The following radio stations will carry notification of BNL delayed openings and emergency closings:

Station	Area	AM	FM
WBAB	Babylon	1440	102.3
WGLI	Babylon	1290	-
WLIX	East Islip	540	-
WHLI	Hempstead	1100	98.3
WGSM	Huntington	740	-
WALK	Patchogue	1370	97.5
WBLI	Patchogue	-	106.1
WRIV	Riverhead	1390	-
WRCN	Riverhead	-	103.9
WLNG	Sag Harbor	1600	-
WWRJ	Southampton	-	95.3
WHN	New York	1050	-

(Please note the addition of WHN since our last listing).

## 107 Wins It!

In a drawing held at the recent IBEW shop steward's night, Mike Guacci, Supply & Materiel, was the winner of a styrofoam bathtub filled with bottles of liquor. Winning ticket #107 was drawn by Sarah Gray, a Lab custodian in Plant Engineering. Proceeds from the raffle run by Local 2230 and its President Charles Geoni went to fund the yearly meeting of stewards which was held this year at the Knights of Columbus Hall, Patchogue.

## Volleyball

### Mixed League

#### Division A

On December 11, Oceanography swept Nuts & Bolts 15-4, 15-6, 15-5, while the Nuclods beat the Diamonds 15-8, 4-15, 15-13. No Names over Lookin' Good 15-9, 15-3, 15-6 and Family Affair shone over Popovers 15-9, 11-15, 15-12.

#### Standings

Oceanography	21- 0
No Names	16- 5
Nuclods	13- 8
Family Affair	9-12
Diamonds	8-13
Lookin' Good	7-14
Nuts & Bolts	7-14
Popovers	3-18

#### Division B

Leftovers took all three games from the Wisa's 15-8, 15-12, 15-10: Balls & Strikes swept over Medical 15-12, 15-9, 16-14. Nads over LeMufs 15-12, 15-5, 7-15.

#### Standings

Balls & Strikes	5- 1
Leftovers	4- 2
LeMufs	3- 3
Nads	3- 3
Medical	2- 4
Wisa's	1- 5

## Gym Holiday Schedule

Closed - Friday, December 22 through Monday, December 25.

Normal Schedule - Tuesday, December 26 through Friday, December 29.

Closed - Saturday, December 30 through Monday, January 1.

Resume Normal Schedule - Tuesday, January 2.

Reminder: The swimming pool will reopen on Tuesday, January 2 at 11:00 a.m. The sale of new season tickets will begin at that time.

## Bowling

### Red League

The 76'ers took the Old Timers 11-0 with some great team bowling, a 3091 series and a 1084 game. J. Connelly (224) had a 591 scratch, R. Larsen a 208, T. Holmquist 645 gross, J. Morris 203, and J. Petro grossed 639. J. Roesler had a 209 for the Old Timers. With two weeks left in the half, the 76'ers are 10½ points up.

The Anachems dumped the Freon Loaders 11-0. C. Bachsmith grossed 617 and J. Kelczewski grossed 614. This Isa Team was skunked by the Trouble Shooters 11-0. W. Kollmer (202) had a 569-608 series. The Designers also came up with zero in a match with the Pinball Wizards.

The Sandbaggers split 6½-4½ with the Blue Jays. R. Meier (202) had a 554-650 series and E. Meier a 201 game.

### Pink League

Barbara Cochrane was the star of the night with her 209 game and the high series of 499. Renie Rosati, who is having a very successful season, bowled 175/169 for a 493 series. Pat Jencius had another good night with 184/166.

Other high bowlers were Mary Grace Meier 186, Pat Lebitski 171, Marge Stoessel 170 and Pat Castleman whose third game was 50 pins over average.

### Purple & White league

The Flounders are still in first place with the Good Times in second. Jere Austin had high series for the men with a 552 and for the ladies Caryl Mac Dougall had a 544. Sharon Smith had high game with a 223 and Jim Griffin had a 201. Other good games were bowled by Gail Thompson 203, Carolyn Eterno 201, Marshall Bull 198 and Wilma Erickson 184.

### Gold League

The Swingers are in first place by 14 points. High games and series were rolled by Lindora Boyd 133/169/201 - 503. Other good games were by Renee Flack 158, Betty Jellet 165, Fran Scesny 157 and Lynn Tice 178.

## Basketball

December 7, 1978 was a day of infamy for the Rhinos as they were torpedoed by the Roadrunners 84-63. Stanley Gilbert and Lucian Bloxon led the Roadrunners' attack with 23 points each. Leroy James with 33 points and Jerry Hobson with 20 points led the Persuaders over the Spuds 112-89. High scorer for the losers was Eric Frank with 32 points.

On December 14, balanced scoring by the Roadrunners defeated the Spuds 83-66. Mitch Williams was the high scorer with 20 points for the Spuds. Stanley Gilbert and Gary Mosely had 17 and 16 points, respectively, for the winners. Jerry Hobson with 37 points, and Wayne Smith with 22 points, led the Persuaders who exterminated the Rhinos 106-69. Dan Costra contributed 19 points for the Rhinos.

The next league games are scheduled for January 4, 1979, at 5:30 p.m.

From Dr. K and all the jocks in the Basketball League - Happy Holidays!

## Ad Deadline

Employees who wish to place an advertisement in the January 5 Bulletin must have their classified ad form to the Bulletin office, Building 460, no later than noon, Friday, December 29. Ads received after that time will not be included in the January 5 issue.

## Classified Advertisements

### Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment, as indicated below. Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

**LABORATORY RECRUITMENT:** Opportunity for present Laboratory employees.

859. SECRETARY - AAS or equivalent capabilities. Will work for High Energy experimental groups as well as in department library. Requires excellent typing and shorthand. Library experience desirable. Physics Department.

860. CLERK TYPIST - Supply and Materiel Division.

**OPEN RECRUITMENT:** Opportunity for present Laboratory employees and outside applicants.

861. MECHANICAL ENGINEER - Requires Bachelor's degree or its equivalent capabilities and background in the design, fabrication, procurement and testing of vacuum equipment. Accelerator Department, ISABELLE Project.

862. MECHANICAL TECHNICIAN - Requires AAS or its equivalent in Mechanical Technology. Some experience with power house or marine equipment and H<sub>2</sub>O analysis helpful. Rotating shift. Accelerator Department.

863. FACILITIES ENGINEER, ELECTRICAL - BSEE or equivalent with demonstrated experience in electrical layout, wiring and one-line diagrams, as well as lighting, alarm and distribution systems. Knowledge of specification writing and preparation of electrical drawings for lab, office and other buildings required. Plant Engineering Division.

864. EXPERIMENTAL MACHINIST - Experience in all round prototype machinery. Central Shops Div.

865. SENIOR MECHANICAL DESIGNER - Experience in machine design, mechanisms, and structural design. Working knowledge of engineering fundamentals and strength of materials required. Biology Department.

866. BIOLOGY ASSOCIATE - BS or MS in Biology or Biochemistry or equivalent experience performing enzyme assays, gel electrophoresis and lipid characterizations for the study of plant nucleases. Biology Department.

### Autos & Auto Supplies

74 AUDI FOX - 76,000 mi, new valves, rings, excel cond. \$1700 or nearest offer. Dennis, Ext. 4382 or 3178.

65 MUSTANG - fast back, 289 V8, 4BL, hi mileage, gd running cond, \$300. Ed Mckenna, JU1-1509.

AIR SHOCKS - Gabriel hijackers for full size Fords, Mercs, 65-78. \$30. 1 mo old. Joe, Ext. 3273.

71 VW SUPERBEETLE - 12,000 mi, on new motor, all new parts, tires. Excel running cond. \$1000. 821-9419.

73 RENAULT - R-12, 56,000 mi, must sell soon, \$950 or best offer. Roger, Ext. 4480 or 928-2849.

RADIAL TIRES - (5) BR78-13 blackwall. Like new, \$25 each. Frank Rumph, Ext. 4581 or 588-3565.

71 PLY - Road Runner 383, a/t, AM/FM, cassette deck p/s, p/b. Good cond. Jimmy, Ext. 2534 or 878-4506.

65 MUSTANG - 6 cyl a/t, snows, gd body and mech cond. \$500. John, 821-1296.

69 COUGAR - 351, V8, p/s, p/b, a/t, snows, gd cond, \$550. 821-1296 eves, wkends.

71 FORD GALAXIE - 2dr ht a/t, new paint, excel cond. Also, 69 Bonneville, 2 dr a/t, new paint, and 73 240Z, low mi. Ext. 4679.

TIRES - (4) 165SR15 steel belted radial, used on VW. Ext. 4449 or 751-8403 eves.

73 BUICK CENTURY - 4 dr sd, brown tinted glass, gd cond. \$1300. Kunio, Ext. 4139 or 3011.

66 DODGE CORONET - gd cond, new trans, asking \$400. Jim, Ext. 4151 or 744-2514.

69 Z-28 - new paint, 302, Doug sidepipes, Lakewood t/a's, more. Must sell. 744-3968.

71 CHEVY STA WAGON - p/s, p/b, a/c, clean, 69,000 mi. Asking \$900. Andy, 289-1755.

72 FORD GALAXIE - 500 sta wagon, p/s, p/b, radio, heater, 351 CID, 67,000 mi. Les, Ext. 4074.

74 FIAT - 128 wagon, 4 spd, 45,000 mi, gd cond, \$1000 negot. Dick, Ext. 4339.

76 PINTO - 4 cyl, 40,000 mi, gd cond, \$1650. Ext. 4093, 732-6262 eves. Cathy.

71 PINTO - green, rec inspected, gd second car, std trans, best offer. Georgia, Ext. 2318.

TIRES - (1) HR78-14 steel belted radial, \$10; (1)FR78-14 Uniroyal snow, steel belted radial; (1) Philco in-dash AM radio, \$15. Chris, Ext. 3919 or 929-4310. eves.

74 MATADOR - excel cond, new tires, more. \$1350. 68 Cougar, gd cond, must see. \$800. Chris, Ext. 4612 or 281-7379 between 3-4.

74 COMET - 2 dr, 6 cyl, p/s, a/t, Michelin radials, v. economical, excel cond. \$2250 or 283-6338 eves.

72 CORVETTE - AM/FM/8 trk, side pipes, T-top, a/c, spoke wheels, white/saddle, excel cond, 57,000 mi. 473-5833.

77 COUGAR - XR7, low mi, 2 dr, full equip, radial tires, light jade/white vinyl top. Julie, Ext. 2942 or 929-6460 eves.

68 OPEL - sta wagon, std, gd cond, new brakes, r/h, clutch. \$350, Bob, 281-4138.

77 NOVA - hatchback, 6 cyl, std, excel cond, a/c, AM/FM, snows. Cory, Ext. 2888.

74 COMET - 37,000 mi, like new, p/s, a/c, a/t, new snows. \$2600. Chandra, 751-3885 eves.

70 FORD - wagon 500. needs u-joint (rear), excel running, 96,000 mi, p/s, d/b, a/c, PRW. Asking \$475. Tom, 325-1033.

66 CHEVY - Chevelle, 6 cyl, a/t, starts, runs reliably, new Sears 36 mo battery. \$200. Ex. 4219.

77 PACER - wagon, a/t, AM/FM, radials, visibility/insulation pkgs, 24,000 mi. \$3950. John, Ext. 2070.

TIRES - 3 radials, R.W.L. FR78-14. \$25. 589-0643.

69 CHEVELLE - no engine, r/r rear quarter damage, 4 dr, rest good for parts. John Hughes, Ext. 2021.

SNOW TIRES - 2 w/w, H79-15 mounted on Ford rims. \$25/pair. R. Skelton, Ext. 2005, 473-4558 eves.

78 FORD - pick-up ½ ton, only 2750 mi, many extras. 286-0626.

SNOW TIRES - new Michelin X16SR15, 2/\$100, also used Goodyear Suburbanites, 165-15, 2/\$10. Ext. 4727 or 286-8082.

SNOW TIRES - Pair E78-14 glass belted, \$10/pair. Richard Horwitz, Ext. 4134.

72 BUICK - sportwagon, a/c, p/s, p/b, gd cond. J. Pantieri, 475-9131 eves.

## Boats & Marine Supplies

28' LUHR - '71 Super 280, fiberglass, 225w/c Chrysler, flying bridge, bimini top, dual cont, camper back, elec refrig, VHF/AM radio, more. 589-3168.

## Miscellaneous

BASEMENT SALE - Sat/Sun, Dec 23/24, 17st. Wading River. 9-5 pm, radial arm saw, a/c, color TV, stereo, chairs, pool table, more. 929-8664 eves.

CHRISTMAS TREES - blue, green spruce. Cut or dug and balled on premises. Pick out your own. Jim, 286-0024 or 289-0876.

OPERA TICKETS - "Dialogue of the Carmelites," Jan 1 eve. Lab seats. Ext. 3364.

BIKE - girls' 20", excel cond, \$25; carriage, \$25, v gd cond; crib, like new, \$60; high chair, \$15; other items. Ext. 2050.

TV - RCA Victor, 21", B&W console. \$50. Betty, 286-0369.

CHRISTMAS TREE - ornaments, lights, etc. \$10. Ext. 3655 or 281-2002.

RECORDS - 78 rpm, classical, popular, albums, singles. Best offers. Ext. 4058 or 286-0436.

BEDRM SET - 3 pc, \$85; reel lawnmower, melnor travel sprinkler, \$10; bedrm dresser, \$20; ice chest, \$10; bathinette, \$5. Walt, Ext. 2913.

FENCE - 100' ex heavy galvanized, chain link, incl posts & gate. \$100. Sue, Ext. 2913.

DYNAMIC MIKE - w/stand, \$65. Ext. 4003.

SKIS - 205 cm, Hart Camaro giant slalom, Cober bindings, mounted. \$50. George, Ext. 2296.

MICROSCOPE - "Tasco" 75 to 600 power w/wooden carrying case. Like new cond, \$25. 727-3608.

KODAK CAROUSEL PROJECTOR CASE - deluxe, 800 series, \$15. Holds 1 tray and projector. Ext. 3254.

SEARS - portable washing mach, like new. \$200. Tom, Ext. 3535.

ICE SKATES - size 7 mens, used once. \$10. Art Beckwith, Ext. 3357.

PIANO - yours for the taking. Upright, made in Boston by Hume. Lenny, Ext. 4467.

SKIS - fiberglass like new, 170 cm, \$50; also 185 cm, \$25. Frank, Ext. 3898.

WM ROGERS SILVERPLATE - coffee service, \$45, and tea service, \$35. John, 924-4262.

ARTIFICIAL CHRISTMAS TREE - 7' Snow King w/3 sets lights, \$40. Bob, 744-8680.

DINNERWARE - 1 set: 45 pc Kensington ironstone, olive green, serv 8, \$40; and 1 set: 32 pc semi-vitreous wh/floral pattern, serv 6. Andy, Ext. 2948 or 722-3168 eves or Ext. 3051.

BEGINNERS GUITAR - and stand, \$20. GR5-8658 eves.

WELL PUMP - new, h/d jet pump, 40 gal tank, full controls, \$150. GR5-0831.

DRILL PRESS - Craftsman table model drill press w/motor, \$150. Julie, Ext. 2942 or 929-6460 eves.

KODAK EKTRON II - electronic flash for Trimlite instamatic, \$20; graphic camera & case with 2-120 film backs, film holder, viewing screen, \$200. Kathi, Ext. 2913.

BOW - fiberglass, 35 lb, extras, excel cond, \$30. English doll's carriage w/bag, rain cover, excel cond, \$25. 744-5079.

WALL OVEN - stainless steel Tappan, gas, chrome interior, built-in rotisserie. Needs thermostat. \$50. Ext. 4070 or 475-7272.

GOLF CLUBS - 8 irons, putter, 3 woods; sit-down cart/bag combo. \$85. John, Ext. 2021.

CORELL CUPS - 4 white, open handle, \$5; single air mattress, green, \$2; used French purse, \$2. P. Oster, Ext. 4763.

20 GAUGE - Mec reloader, w/access, extras; 20 gauge Rem 1100L/W shotgun, extras. J. Zahra, 727-4515.

GUITAR - Goya, model F-11 w/case. S. Cohn, Ext. 3591 or 265-0501.

ICE SKATES - Ladies, size 9 and man's size 9. Hardly used, \$8 each. 727-1617.

SIDE PULL BRAKES - Zeus alloy w/drilled levers, best offer over \$23. Zeus pump, presta valve w/umbrella clip, \$8. Dejan, 286-0854.

ICE SKATES - Boys German made, size 9, \$20. Holroyd, Ext. 4329.

RIFLES - (2) Browning .303 Winchester bolt action, w/4x scope, \$325; Winchester Mod 94 .30-.30, \$125. 744-9746.

CHRISTMAS ORNAMENTS - 50¢ dozen, home furnishings, new elec appl, new crockery cannisters, all reasonable. Karen, Ext. 3689 or 281-8016.

TYPEWRITERS - Remington stand pica, \$45. Royal stand, elite, \$45. 878-1471 eves or Ext. 3771.

COAT - womans size 12, new wool blue/tan, \$20; womans hiking boots, Hypolan 40 size 8, worn once, \$15. 265-1072.

CARTOP CARRIER - \$20. Kunio, Ext. 4139 or 3011.

SKI BOOTS - lady's 2 pr, leather, buckle, sizes 5, 6. \$10 ea. Ext. 2318.

SKIS - Kastle free style pro 180 cm, solomon 444 bindings, used 1 season, excel cond. \$150. Roger, 924-4767.

YOUTH POOL TABLE - 6'9"x3'7" w/2 cues, balls. \$20. H. Brown, Ext. 4773 or 286-9257.

TIRES - (2), E78-14 on Ford 5-hole rims. \$40. Pat, 929-6003 or Ext. 4432.

CLOCKS - (2), 1 pocket watch, 1 pewter style brand new, \$10 ea; children's lamps, Mickey Mouse, Donald Duck, etc, hand painted, made to order, \$25 ea. 281-0843.

FUR JACKET - ideal for college student, good cond, sm-med, brown. Ext. 2926 or 584-5919 eves.

CB WALKIE-TALKIE - 12 channels, 5 watts, w/channels 2, 9 & 13; can be used on other than CB channels. \$55. Kay, Ext. 4605.

DRAPES - w/traverse rods, 2 double pr, 1 triple, green crushed velvet, gold sheers. Best offer. Will sell separately. 928-0297 eves.

TV - color, 20", RCA console, excel, cabinet, needs transformer. \$35. GR5-8658 eves.

WRAPAROUND - ceiling light fixture, 48", brand new. \$20. 281-7844.

ARCOLOGY - Paoli Soleri, "Arcology" book, describes urban Utopias of future, \$20; Earth Shoes, never used, high boot, light tan, 10½, \$25. Andy, Ext. 2948 or 722-3168.

WRISTWATCH - Casio time machine, F-100, time, calendar, stopwatch, laptime, etc. brand new. \$35. Jerry, Ext. 3434.

BACKPACK - Cascade model, lg, \$50; graphic camera & case w/2-120 film packs, 1 film pack holder, viewing screen & case, \$200. Kathi, Ext. 2913.

PUPPY - purebred Schnauzer, male, black, 4 mo old. Asking \$125. 928-8737.

SEARS PORTABLE WASHING MACHINE - like new. \$225. Tom, Ext. 3535.

BICYCLE - boy's 16", \$17; girl's 20", \$10; cartop luggage carrier, \$10; color TV, 18" GE, needs repair, \$25; steam iron, \$5. Okuno, Ext. 3071, 4261.

BASS GUITAR - Univox in mint cond, w/case & other extras. \$200, flexible. Romy, 475-1844.

REFRIGERATOR - white, apt size, 24" wide, freezer section, in top cond & appearance. \$75. Adams, Ext. 2011.

CANON CAMERA - 110-ED, F2 lens, auto exposure w/coupled strobe, aux close-up lens. Asking \$80. Witkover, Ext. 4607 or 368-0452.

ICE SKATES - boy's hockey, size 9, German made, used one season. \$25. Halroyd, Ext. 4329.

BASS GUITAR - short neck, w/case. \$50. 744-9027 eves.

FENCE - 100' extra heavy, galvanized chain link fence, 6' high w/posts, gate. Sue, Ext. 2913.

FIREPLACE SCREEN - brass w/andirons, good cond, \$12; isotherm stack heater, \$125. will sell for \$75. Bob, Ext. 4551.

CASTRO CONVERTIBLE - green plaid Herculon, queen size, excel cond, ball casters. \$450. Sherry, Ext. 7992.

BABY CAR SEAT - \$5, electric lawn mower, \$25. Mark Cohen, Ext. 2957.

TROTWOOD - 17', clean, oven, ref, heat, hot and cold water, sleeps 6. \$1800. 732-2668 at 6. Black & Decker, 3"x24" w/vac, \$60. Ext. 4265, noon.

REFRIGERATOR - Norge, 22 cu ft, '71, frost free, side by side, coppertone, good cond. \$150. Pat, 929-8443.

MICROSCOPE - Tasco, 75 to 600 power w/wooden carrying case, like new cond. 727-3608.

TYPEWRITER - IBM Model C, 19" carriage, accountant's model, upper case. \$115. Steve, Ext. 4725 or 4566.

SKATES - child's ice skates, size 1, \$7; men's ski boots, size 10, \$10; 17 lb bowling ball, \$5; 3 lg Spanish pictures, custom framed, red bckgrnd. Otto, Ext. 3514.

BOOTS - Montini, size 7, used twice. \$25. Ext. 2340.

ASSORTED GAMES - blocks, G.I. Joe, European riding boots, size 36, equiv to size 9. Best offer, 286-3742.

WASHING MACHINE - good cond, \$50; clothes dryer, needs heating element, \$40. 722-4738.

LULLABY BABY CRIB - w/mat, excel cond, walnut. \$50. Jose Medina, Ext. 3284 or 924-6971.

STEREO PHONOGRAPH - excel cond. Ext. 2145 or 736-2511 eves.

ROOM DIVIDERS - wood w/lattice top, 7'x18", 2/\$10; wrought iron, 30"x2", 2/\$15; 30"x3", 2/\$20. 473-2473.

COLOR TV - Motorola, 25", console model. \$40. Irv Meyer, Ext. 3038 or 929-4326.

SINGER RUG CLEANER - & floor polisher, liquid dispensing model, scrubber, waxer, buffer, shampooer. Ext. 2145 or 736-2511 eves.

REFRIGERATOR - GE, 15 cu ft, pink, very good cond. \$50. Paul, Ext. 2476 or 751-2149.

CHESTS - (2), 10-drawer, painted. \$50 each. 286-8890 after 1 p.m.

SEWING MACHINE - Singer, straight stitch, good cond, port w/case. \$50. Jerry, 475-5591 before 3.

BASEMENT SALE - 9 a.m. - 5 p.m., radial arm saw, air conditioners, color TV, stereo, chairs, pool table, more. Sat, Sun, Dec 16, 17, 17th St, Wading River. 929-8664 eves.

## Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.

## For Sale

SHIRLEY - Moving out of state, must sell, 3 bedrm sprawling ranch, LR, formal DR, den w/fp, fin bsmt, possible M/D, ½ acre, appl. \$30,000. Karen, Ext. 3689, 281-8016.

MATTITUCK - secluded 3 bedrm, 2 bath ranch in priv wooded area w/deeded beach rights, w/w carpeting, drapes, appl, fam rm w/fp, low taxes. Ext. 3559, 298-4592 for appt.

CALVERTON - 3 bedrm ranch, oil fired heat & water, storms & screens, fin bsmt, 1 acre. \$34,000. 727-9058.

BROOKHAVEN HAMLET - 3 bedrm ranch, att gar, fin bsmt w/bar & 2 fp, screened porch, new appl, beautifully landscaped near Bay. 212-831-6157 after 6 pm.

COLUMBIA COUNTY - ¾ acres w/mobile home, oil & elec, dead end corner property, 2 lakes, 90 mi from NYC, Taxes \$300. \$17,000. 914-969-5619, or Ext. 4662, ask for Jimmy.

ROCKY POINT - Contemporary ranch, 4 bedrm, 3 baths, eik, DR, 2 car gar, den w/fp, a/c, winter water view, ½ acre, low taxes. \$60,000 neg. 744-7532.

HOLTSVILLE - Condominium ranch, 2 bedrm, LR, DR, 5 appl, close to LIE, available 1/1/79, \$26,500, take over assumable mortg, (rent \$325/mo). Use of pool incl. JU1-5875, 689-8626.

MASTIC BEACH - lng line ranch, 2 lge bedrms, formal DR, den, full bsmt, ¼ acre. \$27,995. 281-5498.

SHOREHAM VILLAGE - Lg Clarendon custom Col, 4 bedrm, 2½ baths, den w/fp, eik, formal DR, 1¼ wooded acre, deck, walk to tennis, beach, country club. \$80,000 reduced. 744-1935.

CENTEREACH - lge 4 bedrm Col, 2yrs old, cathedral ceiling, 2 car gar, 1 block to school, relocating, sacrifice, \$38,990. Ext. 3987, 698-5475 after 6 p.m.

MASTIC BEACH - 4 bedrm, full bsmt, gar, shed, patio, breezeway, OHWH VA approved, must sell due to death. Taxes \$800/yr. \$25,500 firm. Tom, 325-1033.

## For Rent

PARR VILLAGE - 2 bedrm Town House, w/w, 5 appl, a/c, fin bsmt w/wet bar, pool, tennis, 5 min from Lab. \$350/mo. 979-9898.

MASTIC BEACH - 3-4 bedrm, near stores & water, 180x100, newly painted inside, lge LR, formal DR, porch. \$250/mo firm. Terry, 281-0360.

STRATHMORE EAST - 1 bedrm, DR, furn, w/w, a/c, f/p, sunroof, patio, priv ent, no pets, single person only. \$250/mo incl util. 928-8071.

WADING RIVER - 3 rm apt, priv entr, 10 min from Lab. \$295/mo incl util. Avail Jan 15. Rae, Ext. 2387, 929-8846.

MT. SINAI - 1 rm efficiency apt, priv ent, female preferred. \$185/mo util incl. 331-2779.

WADING RIVER - 3 bedrm ranch, private beach rights, Riverhead school dist, fp, w/w, washer/dryer. Available Jan 1, furn or unfurn. \$300/mo plus util. 929-8664.

BELLPORT - 3 bedrm, f/p, waterview, avail Jan 15. \$300/mo + util. Ext. 3482.

## Wanted

BABYSITTER - at our Bellport home to care for infant from 9-5 and 6 yr old from 2:30 to 5 to start late Jan. Salary negot. Lesnik, 286-0103.

CARBURETOR - Model 2100-D, 2V for Ford 360-390 engine. Reasonable. Chuck, Ext. 3512 or 589-1069.

TUT TICKET EXCHANGE - 2 for Sat, April 14, 2:30 p.m. for 2 on March or April 7 wkend; or 2 on Lab bus trip, will pay difference. George Arnold, Ext. 4019 or 477-1377.

APARTMENT - 1 bedrm, gas stove, dishwasher, washer/dryer, no carpeting, wood floors preferred, between Stony Brook and Brookhaven. \$225-\$275 range. Ext. 3405.

SCUBA GEAR - gd cond. Ext. 3096.

SUBSTITUTE MOTHER - to care for 2 yr old on-site, 8:30-5 days. 924-3690 eves.

HOUSE - furn, needed for 1 yr starting 7/79, 3-4 bedrm, Shoreham district. 821-1826.

HOUSE - to rent, 2-3 bedrm, Bellport, or Bayport/Sayville for married, working couple. Mar 1 occupancy. 736-2094 eves.

WILL TRADE - Rhino 3 to 9 power var rifle scope for straight 4x weaver or redfield or bushnell. Joe Bush, Ext. 3284.

ICE SKATES - size 4-5, gd cond, reasonable, microscope for jr hs student. 286-3742.

LADY - who wears size 4 shoes. P. Oster, Ext. 4763.

TRAINS - Lionel any "O" gauge or "O27" gauge, cars, track, equipment. Ext. 4212, Frank.

SHOP MANUAL - '69 Ford Torino. Laffer, Ext. 3354.

SHOTGUN - 20 gauge, gd cond, reasonable. Ext. 3300 or 924-6977.

FEMALE MEMBERSHIP - to Jack Lalane health club. Jayson, Ext. 2341.

PERSON - to share house in Shirley, 10 min from Lab, avail 1/1. \$150 pays all, Ext. 3992 or 399-1257.

MATURE BABYSITTER - for 2 yr old, wkdays, 8-4, our home. 928-8737.

BABYSITTER - for 2 sm children, 3 afternoons per wk at Strong's Neck. Jim, Ext. 3789 or 751-5389.

## Carpools

W SMITHTOWN - want to join/start carpool. Ext. 3268.

SOUTHAMPTON - Hampton Bays, start/join carpool. Will drive own car for share of driving. John. Ext. 2070 or 283-0223.

RIDE - paying rider from Mid Island to Stony Brook, Spring semester, class MWF 9-10 a.m. Flexible. 924-7756.

FROM SO FARMINGDALE - Exit 32 on Southern State Pkwy. Tommy, Ext. 3607.

## Services

ENGLISH CHIMNEY SWEEPS - reasonable cleaning, also light hauling, trash removal. 286-8561.

DOG GROOMING - have your dog professionally groomed for Christmas. \$9 small breeds. M. Beckman, 924-3756.